

# UNION — Y-12 BULLETIN

A Newspaper For Y-12 Employees of Union Carbide Corporation—Nuclear Division

VOL. 21 — NO. 35

OAK RIDGE, TENNESSEE

Wednesday, September 20, 1967

# **ASQC National President Berg** UCC, South Charleston, Guest Here



Robert M. Berg

#### Distiller Expert Is **ASME Guest Tomorrow**

A. A. Lucchesi, Jack Daniel Distillery will describe the technical aspects of distilling at the Oak Ridge Subsection of the American Society of Mechanical Engineers' meeting tomorrow.

The meeting is set for Thursday, September 21, at the Elk's Club, on Arkansas Avenue, Oak Ridge. A social hour begins at 7

#### Oxford's Bagguley Is Joint Seminar Guest

A joint Physics-Solid State Division seminar will be held Friday. D. M. S. Bagguley, University of Oxford, will discuss "Microwave Resonance in the Heavy Rare Earth Metals."

The seminar is set for Friday, September 22, at 3:15 p.m. in the East Auditorium of ORNL's 4500

Robert M. Berg, assistant director, Research and Development Department of the Chemicals and Plastics Division of Union Carbide Corporation, is guest speaker for the ASQC meeting next week.

The Tennessee Chapter of the American Society for Quality Control meets next Thursday, September 28, at the Senator's Club, Knoxville. A social hour begins in the Emperor Room at 6:30 p.m.

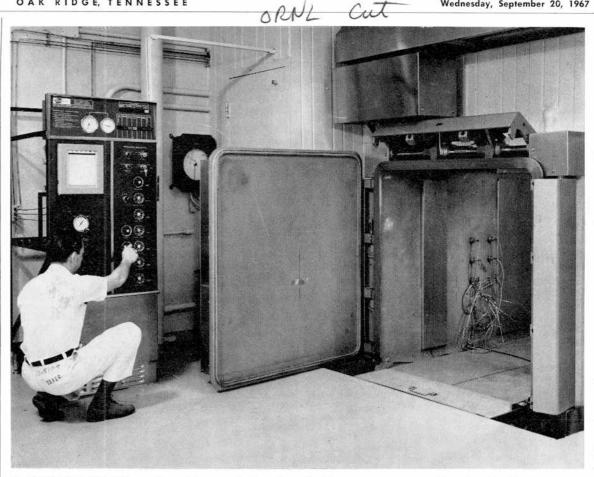
Berg is a graduate of the University of Wisconsin where he received a BS degree in Electrical Engineering. He is a Senior Member of ASQC, and has served on the following committees: Professionalism, Nominating, Redistricting, Section Development, Convention, and Edwards Medal. He is currently serving as national president of the ASQC.

In 1961, Berg was elected an honorary member of the American Society for Testing and Materials Committee D-20; and also served on the ASTM Administrative Committee on Standards, the Materials and Testing Standards Board, and has served on the Board of Directors.

He will outline details of what the national ASQC does for an individual member.

Dinner charges for next week's meeting are \$3.50 and reservations may be made by calling Dan Dawson, extension 3-5991.





A BULK STERILIZER equipped to control automatically pre-programmed cycles in high-vacuum, vacuum-pulse or gas sterilization has been installed in the Biology Division's animal facility. High vacuum sterilization has proved to be the most effective means of insuring sterilization in minimum time with difficult materials, such as animal bedding and food. Experiment Animal Facility supervisor J. R. Wells makes an adjustment at the control panel of the sterilizer.

# 'Clean Room' Facilities Completed For Animals In ORNL's Biology Division

free animals in a controlled en-ORNL's Biology Division here in Y-12.

The barrier facility offers

A facility to house pathogen- maximum protection from infec- maintenance and utilities groups tious agents for the Specific will also be utilized in the usual vironment has been completed at Pathogen - Free animals (those housekeeping and maintenance free of known pathogenic viruses, bacteria and parasites.)

> As an added precaution each cage within the barrier area will keep mouse breeding and invenhave a filter top. This has been tory data up to date. The system effective in preventing certain will be programmed to keep acinfections in a conventional en- curate records and to generate vironment, and is expected to be an added line of defense within data. It will maintain inventory, the barrier system.

Initial stock for the facility will be acquired by surgical procedure. Female mice which have reached the end of their pregnancy are surgically prepared, generation. and the unborn young are removed by sterile procedure. The litters have been removed, and equipment. Growth and replenishment of stock will then be produced by inbreeding.

Although production of aniin about a month, approximately and a chemical sterilization passtwo years will be required for through vat. breeding on a regular basis. After that, it is anticipated that 1,600-2,000 animals per week will SAFETY SCOREBOARD be produced

One of the prime responsibilities of Y-12 is support of Oak Ridge National Laboratory assignments. The plant's in-depth experience in environmental control and so-called 'clean-rooms' was utilized in the design and construction of the strictly controlled area just added in the Biology Division.

P. J. Breman and J. A. Mc-Kenzie, Environmental Control Engineering, worked extensively with the construction contractors in completing the facility. Y-12's

services to be required by the new facility.

A computer will be used to useful information from basic initiate breeding control, provide weaning and weighing lists, notify when to retire breeders, and record inbred lines which may be traced back from generation to

Basically, there are five methods of entry into the barrier area young are then placed with of the building. One method is for germ-free nurse mice whose new personnel and four for materials

Personnel may enter through a change and shower area. Materials and equipment enter through a positive transfer hood, bulk mals on a small scale will begin sterilizer, cage-and-bottle washer,

The Y-12 Plant Has Operated 33 Days Or 955,000 Man-Hours (Unofficial Estimate)

Through September 17 Without a Disabling Injury

> Safety At Home At Work, At Play



THE UNITED FUND APPEAL throughout the three Union Carbide plants here will be held in October of this year. Shown, getting off to an early start, from left, are General Chairman H. F. Mc-Duffie; R. F. Pruett, assistant chairman; and Barbara Lyon, publicity chairman. Organization in the plants is nearing completion, with goals established to meet the very real needs in the counties represented by the more than 12,000 employees who will be approached.

# The Bulletin

Published Weekly For The Y-12 Employees Of UNION CARBIDE CORPORATION



NUCLEAR DIVISION

JAMES A. YOUNG

Editor



American Association Industrial Editors

OFFICE Post Office Box Y Oak Ridge, Tenn. 37830 Room C-9 Bldg. 9704-2 F Telephone 3-7100

# Y-12 Son Dies In Vietnam War

Y-12ers heard sad news last week. Harry L. Bradley, Research Services, was informed that his son Lance Corporal Joseph Keith Bradley, 20, had been killed in action September 6 in Vietnam.

Cpl. Bradley, a 1965 graduate of Oak Ridge High School, was a machine gunner in a weapons platoon.

The Bradley home is at 105 Vienna Road, Oak Ridge.

The Bradley family had heard from their son after a 16-day pafrom their son after a 16-day patrol where he wrote they "had Needed Help been under mortar attacks consistently." He went on to thank his family for food packages, and told them "We may move again pensive loans . . . no politics into the DMZ (Demilitarized Zone). You never know until it happens. Don't worry about me. I'm fine."

ers, Mike, in the U.S. Navy, stavived by a grandmother, Mrs. James Reynolds, Asheville, North ver Springs? Carolina.

rine Corps August 1, 1966, and aged beyond repair in the flash had been in Southeast Asia since flood which came roaring down the first of the year. He had ex- Indian Creek on a Tuesday back pected to return state-side around in July. Not only homes, but the first of next year. He attended many saw their household furthe University of Tennessee and nishings either washed away or Lees-McRae College, Banner damaged completely. Elk, North Carolina, before entering service.

dolence fail us all, co-workers His household belongings were deeply touched.

Classified documents should not be left unattended.



LUCILLE PRUITT, General Can Fabrication Shop, is proudly boasting her little grand-son's photo, Lee M c W r i g h t Pruitt, born August 12, in Presbyterian Hospital. Lee is the son and grandson of two former Y-12ers - Leon (Sonny) Pruitt and the late Lee Pruitt.



DAMAGE BY THE OLIVER SPRINGS FLOOD back in July left the home of V. A. Mattox far away from its original footing. Water also climbed three feet inside the structure, damaging practically all the Mattox furnishings. The American Red Cross was promptly on the electric range, a chest-of-drawers, two beds complete with box springs and mattresses. all the Mattox furnishings. The American Red Cross was promptly on the scene, with a gift of an

# Local Flood Victims Get

Direct help when it's needed. No strings attached . . . no exvolved.

That was the word on the July 11 Oliver Springs tragedy, as the Besides his parents, the young area suffered one of the wettest Marine is survived by two broth- summers in history. But the wet summer just made you mow grass tioned at Miramar, California, a little more, made your house and Harry Lee Jr., Asheville, smell musty, and maybe knocked North Carolina. He is also sur- you out of a golf match or two.

Suppose you had lived in Oli-

It could have cost you your Cpl. Bradley entered the Ma- home. Many homes were dam-

Such was the case of Vern Mattox . . . in Y-12's Buildings, While adequate words of con- Grounds and Maintenance Shops. friends in the plant are completely under water . . . and the house was damaged extensively. The structure was moved from its foundation by the flooding creek, and water rose inside to damage almost all the furni-

#### Furniture Provided

An electric range, a chest of drawers, two beds with mattresses and box springs were promptly replaced by the Disaster Office of the American Red Cross. (As a matter of fact ,the Red Cross appropriated \$56,470.48 for the community on the western edge of Oak Ridge. This was direct, Red Cross, but had never seen person-to-person help, in the form them in action before." of building repairs, furniture and etc. A special gift of \$2,500 came which they came to the rescue of from the Red Cross Youth Fund the flood-stricken town. to repair damages at the Oliver Springs High School.)

It isn't much, you might say. It is a lot if you ask the recipients. Just ask Vern Mattox.

And it's a lot when you consider that the Red Cross last year took little more than half of that here in the United Fund Drive

Oliver Springs Official



V. A. MATTOX AND CHESTER SPRADLIN look over what emergency relief their community received during the July flood which took a heavy toll in homes in the Oliver Springs area. Mattox, in Y-12's Buildings, Grounds and Maintenance Shops, was himself the recipient of direct help, and Spradlin acting as an alderman in Oliver Springs, saw many more of his neighbors helped. Spradlin was marooned temporarily in the City Hall during the recent flood.

Services, who serves as an alder- Hall when the high waters crested man in Oliver Springs was not July 11. His car was innundated inconvenienced by the flood as outside . . . not that he was going much as others. "But it was amaz- anywhere. He spent most of the ing to see the help that came," he night rescuing neighbors and Plant Superintendent; Robert G. stated. "I had always heard of the friends from their flooded homes.

Spradlin and Mattox both

Words of praise were also passed out for the Rescue Squads from some five surrounding counties who came in immediately to hauled water, free, into the town while the water supply was contaminated.

"We just never knew people cared that much," was one com-

#### 'Watch The Creek'

nd daughters to watch the and nursing, food and clothing, cials in the prompt manner in creek. "When it crosses the high- or R. E. Jurko, 3-4334. way, we leave," he warned them. And, sure enough, on cue, they abandoned their home when it was apparent that the flood was going to reach them.

> October 1 is just around the help . . . to local dairies who corner. That's when the Y-12 employee's United Fund will get its kick-off in the plant.

extra special reasons to give this when you know you've helped a year. Not only for all the worth- fellowman! while causes represted in the Chester Spradlin, Chemical Chester was caught in the City United Fund, but for the special that!



The summer vacations are over, and youth are back in school. So it's time we returned to our business as usual.

Today the average American family possesses the substance of what were only wistful dreams of by-gone kings. The living standards to be realized in the genera-tion ahead will dwarf all that has gone before

Many factors contributed to our material abundance, but one factor that is often overlooked is the effort of each individual at innovation and improvement on the many wonders of the modern world. They all save time and money

The last cost reduction report points out how rewarding individual efforts can be. You all exceeded our goal of 701 actions by 19, and our goal of \$800,000 savings to the total of \$1,240,000.

CONGRATULATIONS

#### **DPMA Meet Set** At Deane Hill

"Education in Computer Science and Data Processing" will be the topic of a panel discussion at the September 26 meeting of Data Processing Management Association.

Participating in the program will be Dr. Gordon R. Sherman, director of the Computing Center at the University of Tennessee, moderator; Professor George Wagoner, head of the department of Business Education at U.T.; Professor Elias (Dick) Callihan, Chattanooga State Technical Institute; and Jim Buffler, director of Electronic Computer Programming Institute, Knoxville.

The meeting is set for next Tuesday, September 26, at Deane Hill Country Club. Management, supervision, educations and others interested in education in computer sciences and electronic data processing may make reservations to attend by contacting D. L. Morgan, extension 3-7102.

#### **Engineering Technicians** Charter Meeting Friday

The Oak Ridge - Knoxville Chapter of the American Society of Certified Engineering Technicians is holding a charter dinner meeting Friday, September 22, at 7 p.m. at the Oak Ridge Country Club.

Representative John J. Duncan will speak on "Professional Soc Other prominent guests eties." include C. E. Larson, president of the Nuclear Division of Union Carbide; Roger F. Hibbs, Y-12 Jordan, K-25 Superintendent; and A. K. Bissell, mayor of Oak Ridge.

Reservations may be made Mattox had cautioned his wife through B. H. Montgomery, ex-

> care agencies that come when help is needed.

Giving to the United Fund is like giving to anything. We can manufacture a thousand excuses why we shouldn't . . . but there's one great big reason why we should give. And that's the warm, Like always, it seems we've got human experience that comes

There's almost no price tag on



THESE FOUR PRETTY LASSIES will be cheering the Oak Ridge Wildcats on this year as elected cheer-leaders. They are Jennifer Lund (John R.); Anne-Todd King (Campbell R.); Sharon Miller (Oscar L., Jr.); and Linda Blevins (Archie B.). The parent's name is in parenthesis.

### Mixed Bowling Lead To 2 Teams

The Goofers and Hits & Misses share the top berth in Y-12's hit the lanes Monday, September Mixed Bowling League, after last 11, as the 12-team C League made its debut Two teams took roaring week's tilts. The Goofers trimmed its debut. Two teams took roaring three points away from the Musters rolled over the Fireballs and tangs, while the Hits & Misses ters rolled over the Fireballs and the Royal Flush called the hand three point victories went to the of the Rodders. Roses 'N Thorns over the Alley

topped single scores for men, gers and the Parbusters past the posting a high 226 scratch game, 251 handicap game. His 543 scratch series was high also. Jim Thompson, Twisters, tore a 651 handicap series out of the record

The team highs went in four ords. different directions . . . the Alley Cats rolled a 607 single scratch count . . . the Rollers posted a 777 handicap single total . . . the Hits & Misses amassed a 1776 scratch series . . . and the Roses 'N Thorns posted a 2264 handicap series.

Gwinn McLaughlin, McSprays, capped all women's honors . singles of 178 scratch, 223 handi-

cap series of 444 and 57	9,
Team V	V
Hits & Misses 7	
Goofers	
Mustangs 5	
Roses 'N Thorns5	
Rollers 3	
McSprays3	
Alley Cats1	

# C Bowlers Hit Alley Last Week

For three points it was the Big Cats, and the McSprays past the Twisters.

Bill Hackett, Roses 'N Thorns, Sunflowers sailing past the Bad-Rounders.

> W. R. McGill, Rounders, hit an early stride, rolling singles of 231 Sise, Big Five, put a 602 scratch, each with 98. J. T. Wylam fired ords.

The Rounders rolled high singles of 916 scratch, 1032 handicap while the Big Five scored high series . . . 2476 scratch, 2924 handicap.

Team	
Rollmasters	
Royal Flush	
Big Five	
HiLifers	
Sunflowers	
Parbusters	
Invalids	
Badgers	
King Pins	
Rounders	
Fireballs	
Rodders	

Security is your responsibility



MR. AND MRS. JAMES A PUFFER, and daughter Angela Dawn, recently visited Mrs. Puffer's parents, Mr. and Mrs. O. B. Harness, Unaka Street, Clinton. En route from Rome, Georgia to Dallas, Texas, they will become Lone Star Staters as Jim reports to the Texas Instruments Co. Elizabeth's father and the proud grandfather of Angela is in Y-12's Buildings, Grounds and Maintenance

# Dorr 1-Over-Par In Final Contest

Early morning fog delayed Sat-urday's big golf match at Southwest Point, Kingston, as 148 Y-12 duffers hit the greens.

Carl Dorr came up with a 73 to win the big match, the last of the summer. Dorr was followed in scratch scoring by D. E. Littleton, 75; J. A. Griffin and Bill Lanter, 76, and C. M. Cheek, 79.

Handicap lows were turned in by H. D. Cofer, 66; Bob Roe, 68; Ed Sise, 70 . . . and Ernie Collins,

Mac Wright eagled number 15 hole, taking 14 pars. Bob Hagwood scored 13.

#### SECOND FLIGHT

Co-Opper Rodney Dobbs took the second flight, scoring a hot 77. He was followed in scratch scores by L. C. Watson and Hugh Beeson, 83; John Holly, with 86.

Handicap lows were earned by Carl Selvidge, 70; Joel Garber. 71; J. D. Shelton, 72 . . . and Ray Riggs, 73.

Howard Nobles chalked up 10 pars . . . Bill Butterini, eight.

#### THIRD FLIGHT

Mont Kendrick shot an 87 in the third flight, along with Carl

Handicap lows were taken by Bud Thorp, 70; J. T. Parker and Roy Huddleston, 71; and E. W. Smith and W. L. Seavers, each

#### FOURTH FLIGHT

J. S. Arrington Jr. topped golfers in the last division, scoring a 91. He was followed by

Handicap lows went to Dave Hendrickson and Ray Ellis, each with 72; B. D. McElroy and Fred Marshall, 76.

Charlie Neimeier and Fred Wetzel each scored five pars.

#### **Braves Lose Number** Three In Play-Off

Well, the Braves just didn't cut

In a play-off between Y-12 Softballers and the champs in the ORNL League the Y-12 team got a little worse with each game.

Final action came Monday, September 11.

The Red Devils, big champs from across the hill, romped over the Y-12 team in the third game 13 to 2, winning all three of the first games of the best-of-five

Tom Coffey, Charlie Dunn, Hollis Stakes, and Jim Heiskell poled long homeruns as the Devils drove in 13 runs from 17 hits.

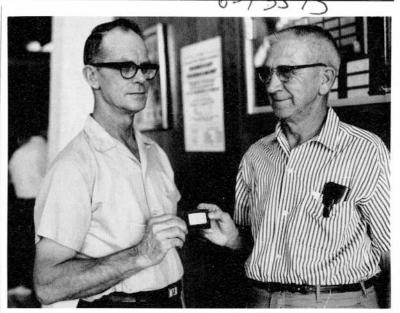
The Braves scored their two runs in the third and final innings. The Red Devils collected four in innings one and five . . . with three in the big third inning

Softballers, come again!

#### Coley-Raper Still Hold Horseshoe Slim Lead

The Durham-Harness team in the Horseshoe League dumped the Helms-Lucke pair for eight points last week and the Coley-Raper team took five from Gray - Leonard. The Matheny -Miller duo posted five also against Rein-Case . . . while the Hutto-Tillery team took a forfeit win from Kendig Zuna

from Kendig-Zupan.		
Team	W	
Coley-Raper, Y-12	34	
Durham-Harness, ORNL	30	
Luckett-Barger, ORNL	_ 28	
Gray-Leonard, ORNL	22	
Matheny-Miller, ORNL	20	
Rein-Case, ORNL	. 18	
Helms-Lucke, Y-12		
Hutto-Tillery, ORNL	. 11	
Kendig-Y-12, Zupan-ORNI,	n	



THE CLASSIC LEAGUE STARTED ROLLING on a pleasant note recently, as Robert Hopper, left, received a belt buckle as the most-improved bowler in last year's play. Hopper improved his bowling average by 11 pins during the season, and receives the A.B.C. buckle from Roy Roberts, league secretary.

### Rippers, Bumpers In Classic Lead

Two teams occupy familiar roles V. Redding. They were trailed by John Perry, 89; W. T. Chapman, 92; and E. V. Hawk, 93. sweep-wins last week . . . the Rippers roaring past the Markers, and the Has Beens beating the Playboys. The Bumpers also moved up with a big win over the Eagles. Other big wins went to the Eightballs over the Splinters, the Tigers past the Screwballs.

> Three point wins went to the Rebels round the Cubs, the Pinbusters past the Smelters and the Swingsters superior to the All

Jay Holzknecht, Rippers, ripped out a 236 single game, pushed to drawn in forfeits. a 250 handicap single. His 627 scratch series was high . . . and John Towle, Eightballs, edged out a 690 handicap series.

The Has Beens had high singles 946 scratch, 1070 handicap . . . and series honors were shared. the Bumpers in scratch count 2617, the Eightballs on the handicap side 2967.

League standings follow:

Team	w
Rippers	7
Has Beens	
Bumpers	616
Rebels	
Pinbusters	6
Smelters	5
Eightballs	5
Markers	4
Playboys	4
Swingsters	4
Tigers	
Cubs	0.1
All Stars	
Splinters	1
Screwballs	0
Eagles	0

# Recreation



Monday, September 25 BOWLING: 5:45 p.m. C League, Ark Lanes.

GOLF: Melton Hill Course, im-

schedule, to be arranged by play-

Tuesday, September 26 GOLF: Melton Hill Course, immediately after work. Wednesday, September 27

CARBIDE RIFLE LEAGUE: 7 p.m. Clinton Rifle Range. BOWLING: Mixed League, 8 p.m. Ark Lanes.

Thursday, September 28
BOWLING: Classic League, 5:45 p.m. Ark Lanes. HORSESHOE LEAGUE: 7 p.m. 34 45 City Courts, Jackson Square.

## Winstead-Ferguson Lead Melton Duffers

The Winstead - Ferguson duo moved out into front place in the Melton Hill Golf League last week, due to a five point win over Hogg-Huffman. Taking six it was Garber-Huddleston over Roberts (soloing for Roberts-Arnold), Alvey-Gamble over Dill-

Four point wins went to Rogers-Watson over Hamby - Braden,
J. Grubb-Cofer over GreshamBrown, and H. Butler-Wright
over Nobles-Redding.

Sharing three it was Nelson-Tiller and Bryant (alone for the

Bryant-Henderson pair.) Two of the set matches were

Low scratch cards were returned by Newt Hamby, 40; Wright and Cofer 41, Braden, Brown and Watson . . . 42. Handicap card lows went to Watson, 35; Winstead, 36; Cofer and

Hamby 37.

Team	W	1
Winstead-Ferguson	28	
Gresham-Brown	25	11
Nelson-Tiller	25	11
Rogers-Watson	25	11
Garber-Huddleston	24	12
J. Grubb-Cofer	23	13
H. Butler-Wright	21	15
Hogg-Huffman	20	16
Hamby-Braden	17	19
McGinnis-Goodwin	16	20
Boyd-Sise	16	20
Perry-Butler	16	20
Arnold-Roberts		21
Alvey-Gamble	13	23
Morehead-Poly	10	
Bryant-Henderson	13	23
		25
Nobles-Redding		26
LUIII-HODWOOD	G	- 27



Ride wanted or will join car pool from West Outer Drive, Oak Ridge, to Bear Creek Portal, straight day. Wayne Oaks, plant phone 3-7397, home phone Oak Ridge 483-1065.

Will join car pool from Normediately after work.
TENNIS: League play as per wood area, Knoxville, to Central Portal, straight day. Gene Keith, wood area, Knoxville, to Central plant phone 3-5606, home phone Knoxville 689-2229

Two riders wanted from Dela-ware, East Village section, to North or Central Portal, straight day. Roy Roberts, plant phone 3-7565, home phone Oak Ridge 483-1207.

Ride wanted from Monticello Apartments, near Atomic Museum, to East Portal, straight day. Mildred Earhart, plant phone 3-5471.

It is always time for security.

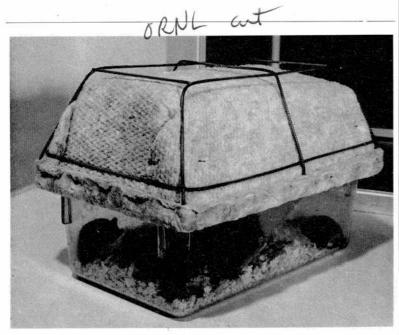


UNION CARBIDE CORPORATION NUCLEAR DIVISION

P. O. BOX Y, OAK RIDGE, TENNESSEE 37830

(RETURN REQUESTED)

BULK RATE U.S. Postage PAID Oak Ridge, Tenn. Permit No. 71



FILTER TOP CAGING, which has proved effective in preventing certain infections from occurring in a conventional environment, is expected to be an added line of defense within the barrier system of ORNL's Biology Division. The new structure will house Specific Pathogen-Free animals . . . those free from known pathogenic viruses, bacteria and parasites.

# 'Clean Room'

Continued from Page 1 Seven Animal Rooms

The facility contains seven animal rooms inside the barrier area. Each room accommodates 400 animal cages and is supplied with a sufficient volume of air to provide a minimum of 15 changes per hour. Air is introduced into the top of the cell via a continuous slot-type diffuser running the entire length of the room. The resulting flow pattern does not cause excessive drafts. Air is exhausted from the floor level and conducted via duct-work to the

Unique services and construction details include flush-mounted | High Vacuum Sterilization electrical receptacles with watertight covers, and vapor-tight lighting fixtures in animal rooms. This permits spraying and rinsing of walls and ceilings for frequent cleaning and decontamination.

To prevent the entry of any contaminated air into the barrier area through the conduit system, sealing condulets were installed in all electrical conduit lines entering the facility from the outside. To prevent air flow between certain areas, caulking compound composed of a polysulfide base or 2,500 bottles per hour. sealant was used throughout the facility

#### **Automatic Air Locks**

north end of the facility, are arranged in such a manner that the low animals in utero to be passed before the second door can be the solution, to the barrier. opened.

An alarm thermostat located in each of the animal rooms and a humidistat, with a sensing element located in the exhaust duct from the animal room, actuate alarms at a central utility monitoring center when either the and sleek with ease and hometemperature or humidity vary beyond preset limits.

The facility has three types of general." —Plutarch. communication systems. These include a public address system

for paging the entire facility. There are also three automatic two-way intercom systems for communication between the barrier area and other areas of the animal facility. The third system is a combination paging and telephone type of intercommunication system which serves the animal area of the facility and one remote station in another build-

Specialized equipment in the new facility will include a positive air transfer hood which will allow animals to be routinely passed from one area of the building to another. This will decrease personnel traffic into the barrier

A bulk sterilizer equipped to control automatically pre-programmed cycles in high-vacuum, vacuum-pulse or gas sterilization has been installed. High vacuum sterilization has proved to be the most positive means of insuring sterilization in minimum time, with difficult materials such as animal bedding and food.

Also installed in the facility is a combination cage - and - bottle washer which is capable of washing, rinsing and drying 540 cages

A chemical sterilization passthrough vat containing an aque-Two air locks, located at the stalled between the surgical area ous sterilization solution was infirst door will close automatically from the surgical area, through

Biology Division's M. L. Simmons will be in charge of the facility's programs.

"A man without one scar to show on his skin, that is smooth and sleek with ease and home-keeping habits, will undertake to dinner preceding the technical problem of where to locate a define the office and duties of a

Security is always in season.



'Heap high the farmer's wintry hoard! Heap high the golden corn. No richer gift has Autumn poured . . . From out her lavish horn!' The golden time of the year welcomes more Y-12ers into status groups with Union Carbide Corporation. Congratulations.

20 YEARS Thomas A. Burkett, Dispatching Department, September 24.

15 YEARS Charles F. Robinette, Process Maintenance, September 23.

Lonnie H. Davis, Buildings, Grounds and Maintenance Shops September 24.

Elmer C. Hatmaker, Research Services, September 24.

James P. McMillin, Radiation Safety, September 24.

John H. McNelly, Dispatching Department, September 24.

Glenn Slack, Dispatching Department, September 24. 10 YEARS

Charles E. Dial, Machine Maintenance, September 23.

Douglas L. Frazier, Quality Assurance Inspection, September 23. Carl D. Lawson, Dimensional

Inspection, September 23. Donald Neely, H-2 and F-Area Shops, September 23.

Robert D. Scalf, H-2 and F Area Shops, September 23.

Art D. Schulte, Dimensional Inspection, September 23.

**Noted Geneticist** Is HPS Speaker



Dr. William L. Russell

Dr. William L. Russell, world famous research geneticist at Oak Ridge National Laboratory, will be guest speaker for the September meeting of the East Tennessee Chapter of the Health Physics Society. The meeting is set for Monday, September 25, at the Oak Ridge Country Club.

Dr. Russell is a native of England and received his BA at Oxford University in 1932. He came to this country shortly thereafter and received his PhD in mammalian genetics from the University of Chicago. In 1947, he married his well known collaborator in genetics, Dr. Liane B. Russell.

Dr. Russell is the author of more than 80 published papers in genetics and related fields, and has been an advisor in radiation genetics to the United Nations and other organizations. He has held many offices in the Genetics Society of America, including the presidency in 1965.

The program for the September meeting of the HPS will begin at telephone connections. Applicasession. Dr. Russell's address is entitled "Recent Genetics Re- introduced by Dr. C. S. Shoup, of Hazard Evaluation." He will be ties.



A COMPUTER IN EVERY HOUSEHOLD? Computers may be as common as telephones by the 21st century. CBS News Correspondent Walter Cronkite is seen with a portable computer terminal in his office while preparing for the "21st Century" two-part report on "The Computer Revolution" to be seen Sunday, September 24, at 6 p.m., EDT, over WBIR-TV, Channel 10. The terminal reaches the computers at the Manhattan Information Processing Center of General Electric via a standard desk telephone. The system enables 40 users to share the same computer at one time.

# 'The Computer Revolution' To Be Seen On '21st Century' Sunday, September 24

muscle power. The computer youngsters study geometry. promises to extend his already immense brain power. This 1, examines man's future relaachievement and its profound tionship with the computer in meaning will be explored in "The what may become known as the 21st Century" two-part report on "The Computer Revolution" starting Sunday, September 24 at 6 p.m., EDT, over WBIR-TV, Channel 10. Walter Cronkite is principal reporter for the series, sponsored in the public interest by Union Carbide Corporation.

The impact of the computer revolution is being felt throughout the world today. New York could not handle its daily load of air traffic without the computer banks at the New York Air Traffic Control Center. At the center computers are seen regulating traffic for one of the world's busiest airport complexes - Kennedy International and La Guardia on Long Island, and Newark, New Jersey. Arrival or departure of one airliner every 21 seconds involves billions of numbers and split-second calculations already too complex for the human mind.

Added action highlights of the report include operations of a computerized steel mill where a red hot slab of 12 inch thick steel is converted into a shimmering, paper-thin ribbon a quarter mile

Computers monitor patient care from arrival to departure at the Monmouth Medical Center in New Jersey; and study and diagnose electro - cardiograms, electronic records of heart activity; at Mt. Sinai Hospital in New York City, demonstrating their future use in medicine.

Ten thousand characters per second are printed by the Linotron, a new computerized typesetting machine developed jointly by CBS Laboratories and Mergenthaler Linotype Company.

The promise of a computer in the home and the office is demonstrated at IBM's Philadelphia, Pennsylvania, computer center. Here, 50 firms, individuals and schools use one computer via

search and Relation of Results to Oak Ridge Associated Universi-

Nuclear energy extended man's community antenna to helping

The second report, on October "age of the computer."

# Playhouse Plans Anniversary Fete

The Oak Ridge Playhouse Silver Anniversary Dinner Dance is set next Friday, September 29, at the Oak Ridge Country Club. The buffet dinner will be served from 7:30 until 9 p.m.

Music by Tony Musco and Orchestra begins at 9 and will last until 1 a.m. Intermission entertainment (?) for the dance will be provided by Ruth Carety, Norwood Gove, Dick Smyser and Eugene Eichler. The theme of the skit is "A Funny Thing Happened on the Way to Opening Night."

Reservations chairmen are Mrs. Melvin Sturm and Mrs. J. T. Gillespie. Those not planning to attend the dinner may obtain dance reservations only.



ISADORE SHARPER, Maintenance Division, proudly shows off his great-grandson! The little fellow, Reginald Isadore Sharper, recently visited his great grand-parents in Oak Ridge. He lives with his parents at Ft. Campbell, Kentucky, where his dad is stationed with the famed 101st Airborne Division.